SEC. CL.	ORIGIN	CONTROL NO.

CROSS REFERENCE OR POINT OF FILING

TO
FROM
SUBJ.

ROUTING	DATE SENT

SEC. CL.	ORIGIN		CONTROL NO. 27/67

CROSS REFERENCE OR POINT OF FILING

TO A/ED
FROM C/TAS
SUBJ. - [redacted] Rapid Interpretation Printer-Processors (RIPP)

ROUTING	DATE SENT
JP	25X1
~~EL~~	
~~GES~~	
C/DS	

	DATE
Chief, Imagery Analysis Staff, DDI	21 February 1967

TO		INITIALS	DATE	REMARKS
DIR				
DEP/DIR				
EXEC/DIR				
TECH ADV				
SPECIAL ASST				
ASST FOR P&M				
CH/SS				
ASST FOR OPS				
ASST FOR PA				
ASST FOR P&D	1	(14)		F. Lack. Door
				See me and
C[redacted]SD				be prepared -
CH/IPD				D-637 should
C[redacted]D				never have been
CH/PSD				written and certainly
CH/TID				to another copy
CH/CIA/IAD				
CH/DIA/XX-4				
CH/DIA/AP-IP				
CH/SPAD				
LO/CGS/CIA				
L[redacted]NSA				

SECRET

IAS/OSS-27/67
21 February 1967

MEMORANDUM FOR: Assistant for Technical Development, NPIC

SUBJECT: [redacted] Rapid Interpretation Printer-Processors (RIPP) 25X1

REFERENCE: Memorandum, NPIC/TDS/D-657-67, dated 26 January 1967

1. As you may know, we have encountered numerous problems with our six (6) RIPP units. The malfunctions have varied widely, but include the following: one (1) processor motor failed and was replaced; two (2) units developed water leaks; the platen latch came apart on one (1) unit; another used excessive ammonia (original tank operated only 240 hours); two (2) units still produce excessive ammonia odors; one (1) unit has a broken platen glass; and all six (6) processors have jammed at various times. When these problems occurred, we have notified the Technical Development Staff contract monitor, [redacted] 25X1 who has telephoned the [redacted] and arranged for service calls by their representative, [redacted] 25X1 25X1

2. In mid-January, after all six (6) units had been received, we became concerned that only cursory resolution tests were being conducted by [redacted] 25X1 and/or [redacted] and OSS/IAS personnel spent several hours conducting resolution tests on two (2) RIPPs, using a resolution target borrowed from the Technical Intelligence Division. When these tests indicated unacceptable variations in resolution, [redacted] Chief, Operations Support Staff, IAS, discussed the question of testing and acceptance with [redacted] of your Staff, who initiated the memorandum referenced above. 25X1 25X1 25X1

3. As of Friday, 17 February 1967, the Equipment Performance Staff had not begun a testing program, so [redacted] arranged a meeting with [redacted] to discuss this and other RIPP problems. Apparently, [redacted] has tried repeatedly, without success, to get the EPS/TDS started performing resolution tests. Nevertheless, we have informed [redacted] that we feel the [redacted] must be held to the performance parameters as stated in the contract (see Attachment A), which specify the required mechanical performance, as well as density and resolution levels. If the RIPPs cannot meet these specifications, they will never be satisfactory imagery exploitation devices. 25X1 25X1 25X1

4. Since there has been some controversy regarding contractor maintenance obligations, we call your attention to paragraph 5.3 and 6.1 of Attachment A. To our knowledge, none of the six (6) RIPPs have operated 200 hours without needing maintenance, but it is uncertain whether [redacted] has recorded the time of each failure in order to start a new 200 hour cycle after repairs were made. In any case, the total number of operating hours per unit to date are shown below: 25X1

SECRET

GROUP 1
Excluded from automatic downgrading and declassification

IAS/OSS-27/67
21 February 1967

RIPP # 1001	306 hours
RIPP # 1002	271 hours
RIPP # 1003	255 hours
RIPP # 1004	205 hours
RIPP # 1005	151 hours
RIPP # 1006	183 hours

5. In view of the foregoing, and the fact that we have invested approximately [redacted] in this effort (exclusive of TDS R&D funds), we ask that final acceptance of the six (6) RIPPs be delayed until their performance has been approved by the IAS through the Chief, Operations Support Staff, IAS/DDI. 25X1

25X1

[redacted]
Chief, Imagery Analysis Staff, DDI

Attachment
Attachment A

Distribution
Original - Addressee
2 - OSS/IAS/DDI

5. Test of Five Rapid Interpretation Printer-Processors

5.1 After delivery, the Government will test each unit before final acceptance.

5.2 The time-recording meter on each unit must be accurate to within ±5% as measured during any twenty-four hour period. For the purposes of this test each unit's time meter will be used to measure the length of time each unit is in operation.

5.3 Each unit must operate a minimum of 200 hours before needing maintenance.. If a unit fails or needs repeated adjustment, before the 200 hour period, its time of failure will be recorded and repairs will be made by the contractor. The unit will be started again and will attempt to operate 200 hours as measured from the time of the last repair. If, at the end of the 90 day period after receipt of equipment, any unit has not run for 200 hours or longer before needing maintenance, it will not be accepted by the Government. If the minimum at that time is less than 200 hours, an additional 90 day test period may be run at the discretion of the Government.

5.4 The six units must operate for an average of at least 400 hours before needing maintenance. This average will be taken 90 days after receipt of equipment. If the average at that time is less than 400 hours, an additional 90 day test period may be run at the discretion of the Government.

5.5 With each unit placed in a room of at least 2000 cubic feet, in which the air is completely replaced every 20 minutes, it must not cause a concentration of ammonia greater than 100 parts per million to exist during normal operation.

5.6 The minimum water level indicator light and automatic shut-off must be demonstrated satisfactorily at least four times.

N.A. ~~5.7~~ The visual desiccant indicator must show color change at least once during test.

5.8 In all respects, each unit must perform at least as well as the unit delivered under previous contract before the modifications under paragraph 4 are completed. The resultant copies must be of at least the same quality as those produced from the previously delivered unit. Within any given single copy the unit must demonstrate a resolution in excess of 200 lines per millimeter, 1.80 maximum density and 0.05 minimum density.

5.9 At the discretion of the Government, failures of light bulbs, fuses, and similar components, where used within the specified ratings of the components, need not be considered as a failure for purposes of the acceptance test. A continuing failure of replaced components will be considered to be the fault of the unit's construction.

5.10 At the discretion of the Government, an occasional (less than one per 200 copies) jam of a copy in the processor need not be considered as a failure providing it can be removed and the unit put back in operation within fifteen minutes.

6. Maintenance

6.1 The contractor must provide 90 day period of free maintenance for each unit (commencing on the date each unit is accepted by the Government). The contractor must pay for wages, parts, travel and all other expenses. The contractor must provide such service within forty-eight hours after receipt of a verbal request by the Government.

6.2 The contractor must provide an additional nine month period of Government reimbursed maintenance for each unit (commencing on the date the maintenance period described in 6.1 is completed). The Government will bear all expenses for this service. The contractor must provide such service within ninety-six hours after receipt of a verbal request.

Figure 3. Image of the Kodak wedge made during the third successful attempt at test a).

Figure 4. Image of the Kodak wedge made during the last successful attempt at test a).